### **PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY							
То:			PCT				
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
		(PCT Rule 43 <i>bis</i> .1)					
		Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)					
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below					
International application No. PCT/EP2004/009073	International filing date (		Priority date (day/month/year) 13.08.2003				
International Patent Classification (IPC) or t C07D471/04, A61K31/437, A61P29	oth national classification 0/00	and IPC					
Applicant GLAXO GROUP LIMITED							
This opinion contains indication	ns relating to the foll	owing items:					
<u> </u>	Box No. I Basis of the opinion						
_	⊠ Box No. II Priority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	Box No. IV Lack of unity of invention						
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
☐ Box No. VI Certain docume							
	in the international app						
☐ Box No. VIII Certain observa	tions on the internation	al application					
2. FURTHER ACTION							
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
Submit to the IPEA a written reply	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date.						
For further options, see Form PCT	For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Fo	orm PCT/ISA/220.						
•							
Name and mailing address of the ISA:		Name and mailing address of the ISA:  Authorized Officer					

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Form (PCT/ISA/237) (Cover Sheet) (January 2004)

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### IAP20 Rec'd PCTAPTO 13 FEB 2006

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009073

_	Pas	No. 1. People of the entries				
		No. I Basis of the opinion				
1.	<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ol>					
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2.	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. ty	pe of material:				
		a sequence listing				
		table(s) related to the sequence listing				
	b. fo	rmat of material:				
		in written format				
		in computer readable form				
	c. tin	ne of filing/furnishing:				
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.	I	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	. Additional comments:					

Form PCT/ISA/237 (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009073

Bo	x No. II	Priority
1. 🛛	The fo	llowing document has not been furnished:
	⊠	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
		translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
	Conse neverti	quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.
2. 🗆	nas be	pinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.
3. 🗆	was no	not been possible to consider the validity of the priority claim because a copy of the priority document that available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has neless been established on the assumption that the relevant date is the claimed priority date.
4. Add		bservations, if necessary:

Form PCT/ISA/237 (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009073

app	x No. III Non-establishment olicability	of o	pinion with regard to novelty, inventive step and industrial
The obv	e questions whether the claimed rious), or to be industrially appli	d inve	ention appears to be novel, to involve an inventive step (to be non have not been examined in respect of:
Ø	the entire international application,		
Ø	claims Nos. 18,19 (industrial applicability)		
bec	ause:		
☒	the said international application, or the said claims Nos. 18,19 relate to the following subject matter which does not require an international preliminary examination (specify):		
	see separate sheet		
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):		
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.		
	no international search report has been established for the whole application or for said claims Nos.		
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Ai C of the Administrative Instructions in that:		
	the written form		has not been furnished
			does not comply with the standard
	the computer readable form		has not been furnished
	•		does not comply with the standard
<b>.</b>	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, on not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.		
<b>-</b>	See separate sheet for further	detail	s

Form PCT/ISA/237 (January 2004)

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009073

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-21

No: Claims

Inventive step (IS)

Yes: Claims

No:

Claims

1-21

Industrial applicability (IA) Yes:

Yes: Claims

1-17,20,21

No: Claims

2. Citations and explanations

see separate sheet

## IAP20 Rec'd FCTIFTO 13 FEB 2006

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/009073

### Re Item III

Claims 18 and 19 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

#### Re Item V

#### PRIOR ART

Reference is made to the following documents:

D1: WO 99/61436 A D2: US-B-6 300 3631

#### 2. NOVELTY

The subject-matter of the claims is considered to be novel (Article 33(2) PCT). The essential structural difference between the claimed compounds and those of D1 resides in the substitution pattern on the 7-azaindole ring system, i.a. the compounds of D1 do not show substituents in 2- and 6-position, but in 2-position. The essential structural difference between the claimed compounds and those of D2 resides in the 7-azaindole ring system as such, because the compounds of D2 are indoles and not azaindoles.

### 3. INVENTIVE STEP

The subject-matter of the claims can be considered as involving an inventive step (Article 33(3) PCT). The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, because it discloses i.a. 7-azaindole derivatives as COX2 inhibitors. The structural difference to the present compounds is as outlined above. The problem to be solved by the present invention is seen in the provision of further 7-azaindole derivatives as COX2 inhibitors. In view of the experimental part and the other information as given in the description, it can be assumed that this problem has been solved for those compounds as disclosed in the claims.

The prior art D2 discloses further compounds for the same use but with constitutions

Form PCT/Separate Sheet/237 (Sheet 1) (EPO-January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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differing from the presently claimed molecules in in the basic ring system. D1 and D2 give no information, which would motivate a man skilled in the art to arrive at the present invention. Even combining the subject-matter of the two prior art documents would not lead to the claimed invention.